

The next generation of Mini-PC-Barebones

The new H7-casing of the XPC Barebone SN78SH7 combines the best features of many successful Shuttle Mini-PCs and is ushering in the next generation. The Mini-PC-Barebone's technical highlights include the use of the NVIDIA GeForce 8200 chipset which already supports DirectX 10 and HDMI. That this XPC Barebone is the ideal base for AMD's innovative Phenom Multi-Core-processors based on the Socket AM2+, is reinforced by a highly effective 300 watt power supply. Current graphics cards with PCI-E 2.0 are supported without any problems in this attractive aluminium casing. Purchasers can expect a true "Auditory Cinema" due to the outstanding sound quality produced through the DTS Connect and Dolby Digital Live!



Glamor
xpc Barebone
SN78SH7



Feature Highlight

H7 chassis	<ul style="list-style-type: none"> Aluminum chassis (black) Bays: 1x 5.25", 2x 3.5"
Chipset	<ul style="list-style-type: none"> Chipset: NVIDIA GeForce 8200 Integrated DirectX10 graphics 256MB shared memory HDMI and VGA Video output
CPU	<ul style="list-style-type: none"> Socket AM2+ Supports AMD Phenom processors Supports HyperTransport Version 3.0 Shuttle I.C.E. Heatpipe-cooling
Slots	<ul style="list-style-type: none"> 1x PCI-Express V2.0 (x16) 1x PCI (32 Bit)
Memory	<ul style="list-style-type: none"> Supports 2x DDR2-533/667/800 Supports up to a total size of 4 GB
Drive connectors	<ul style="list-style-type: none"> 2x SATA 2.0 (internal), RAID 2x External Serial-ATA (eSATA, ext.) 1x IDE ATA 100, 1x floppy
Other connectors	<ul style="list-style-type: none"> 8-channel HD audio Dolby Digital Live! und DTS Connect USB 2.0 (2x front, 4x rear, 4x onb.) 2x Firewire, GigaBit LAN
Power supply	<ul style="list-style-type: none"> 300 Watt SilentX PSU, 80Plus
Application	<ul style="list-style-type: none"> Home

Images for illustration purposes only.

Product ID: SN78SH7
UPC (see bar code)

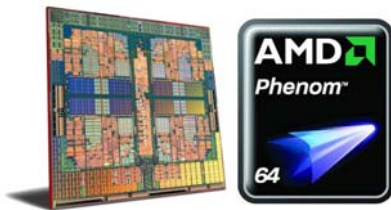


Shuttle XPC Barebone SN78SH7 – Special Product Features



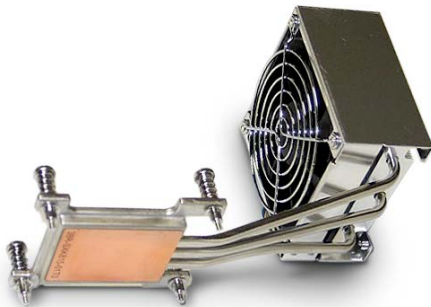
The Shuttle XPC Glamor series is the keyword in artistic design from Shuttle.

There are different chassis designs to choose from. No matter whether it's for use in the home or the office, for high adrenaline or laid back users, there is a Shuttle XPC in the Glamor series to suit every taste. The front panel and cover of the H7 chassis is completely made of aluminum. This leads to a stylish appearance and makes it to a popular design for many users.



Socket AM2+ supports AMD Phenom Processors

Realize new possibilities for connecting with friends, family, and digital entertainment with the phenomenal performance of the AMD Phenom™ 9000 series quad-core processor. Built from the ground up for true quad-core performance, AMD Phenom processors speed through advanced multitasking, critical business productivity, advanced visual design and modeling, serious gaming, and visually stunning digital media and entertainment.



Integrated Cooling Engine (I.C.E.)

Shuttle's XPCs offer the power of a desktop PC in a form factor one-third the size. In order to ensure proper airflow inside a smaller unit, more advanced cooling technologies have been developed and implemented in the Shuttle XPC. Shuttle's industry-leading I.C.E. heatpipe technology delivers efficient cooling and is exceptionally quiet.



NVIDIA GeForce 8200 Graphics Engine

The NVIDIA GeForce 8200 GPU brings new graphics technologies to everyone. Enjoy Windows Vista and today's popular games with DirectX 10. Experience astounding Blu-ray and HD-DVD movie picture quality (supported formats include H.264, VC1 and MPEG2) with PureVideo HD technology. Enjoy enhanced system performance, reduced power consumption and quieter operation with minimal CPU utilization.



Dual View Technology with HDMI 1.3 and VGA

Dual View technology offers multiple display support on up to two separate monitors. This improves the capabilities and productivity of the user by allowing them to spread multiple windows over two monitors and view them simultaneously. The integrated Intel graphics processor delivers best-in-class 3D performance and leading graphics compatibility to play top games the way they are meant to be played.



PCI-Express V2.0 for high-performance graphics cards

The Shuttle XPC Barebone SN78SH7 is equipped with one PCI-Express x16 Version 2.0 slot delivering a bandwidth of up to 16GB/s, twice the speed of PCI-E 1.0, thus providing plenty of potential for the newest graphics cards. It is downward compatible, allowing use for most of the present graphics cards as well.



300W



Finest cinematic surround sound experience

What would a home theater be without booming, immersive 7.1 channel surround sound? Experience state-of-the-art sound quality provided by Dolby® Digital Live and DTS® Connect functionality.

80 PLUS® Certified Power Supplies

The 80 PLUS® performance specification requires power supplies in computers and servers to be 80% or greater energy-efficient. The Shuttle XPC Barebone SN78SH7 features a powerful 300W power supply with 80 PLUS® validation as standard.

Supports 2x SATA + 2x eSATA with RAID

Two SATA hard disks can be installed in the Shuttle XPC Barebone SN78SH7. In addition, two further hard disks can be connected to the PC using its eSATA ports for three times faster speeds as known from the USB 2.0 standard. The mainboard chipset also supports RAID that is a method of combining multiple hard disks in a single logical unit to offer higher performance (Raid 0 = Striping) or higher security (Raid 1 = Mirroring) or a combination of both.

New Era of All-Solid Capacitor Shuttle Mainboards

By using all-solid capacitors Shuttle mainboards provide industry leading stability, reliability and longevity for PC gaming and entertainment systems. The average lifespan for a solid capacitor is more than six times greater than the more common and less expensive electrolytic capacitors.

Color slots design

Easily recognize color codes provides an easier way to install the devices such as Power switch, USB, PCI-E, PCI, DDR2.

Supports Windows Vista Premium

Breathtaking Windows Aero™ 3D visual interface and a host of groundbreaking new features, Windows® Vista™ Premium promises to deliver a streamlined computing experience designed to fundamentally change how users view, find and organize their digital information.

Shuttle XPC Accessory

Shuttle offers a wide variety of accessories for XPC barebones and complete systems such as WLAN modules or expansion kits. The XPC carrying bag is also a popular accessory - it is the ideal solution for LAN party gamers and business people, who need to transport their XPC.

Shuttle XPC Barebone SN78SH7 Specifications

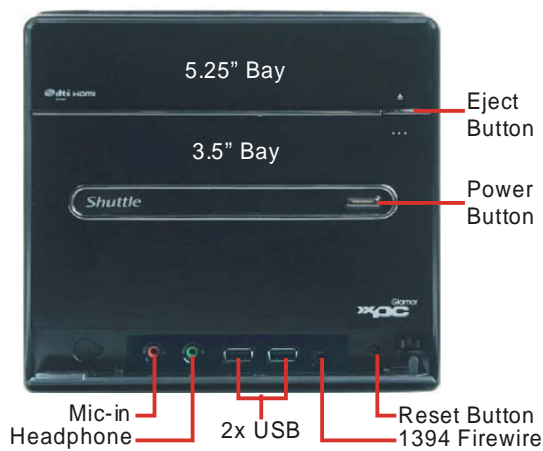
<i>Chassis</i>	<p>H7-type aluminum chassis, black color</p> <p>Hidden front panel connectors and drive bays.</p> <p>Storage bays: 1 x 5.25", 2 x 3.5" (1 internal)</p> <p>Dimensions: 32.6 x 20.8 x 19 cm (LWH),</p> <p>Weight: 3.3 kg net / 4.6 kg gross</p>
<i>Mainboard</i>	<p>Shuttle FN78S , Shuttle form factor,</p> <p>Proprietary mainboard design for Shuttle XPC Barebone SN78SH7</p> <p>Chipset: NVIDIA GeForce 8200 (Codename: MCP 78S)</p> <p>Solid Capacitors for excellent heat resistance for enhanced system durability</p> <p>Color slots/connectors design (Power switch, USB, PCIe, PCI)</p> <p>Dimensions: 25.4 x 18.5 cm</p>
<i>Power Supply</i>	<p>SilentX 300 Watt mini power supply unit</p> <p>Input voltage range: 100~240V</p> <p>Connectors: 20-pin ATX, 4-pin ATX12V</p> <p>Dimensions: 190 (L) x 82 (W) x 43 (H) mm</p> <p>80 PLUS® certified (80% or greater energy-efficient)</p> <p>EMI certified: FCC, CE, CCC</p> <p>Safety certified: TÜV, UL, CB, CCC, CSA, NEMKO</p> <p>Active PFC (Power Factor Correction)</p>
<i>Processor Support</i>	<p>Supports AMD Processors with AM2+ socket:</p> <p>AMD Phenom, Athlon 64 X2, Athlon 64, Sempron processors</p> <p>3 GHz HyperTransport v3.0 Technology x16 Up/Down links</p> <p>Please refer the support list for detailed processor support information.</p>
<i>Processor Cooling</i>	<p>Shuttle I.C.E. (Integrated Cooling Engine)</p> <p>advanced I.C.E. Heatpipe technology, linear controlled 92mm fan</p> <p>SilentX cooling and noise reduction technology with Active Airflow</p>
<i>Memory Support</i>	<p>2 x 240 pin slots, supports Dual Channel</p> <p>Supports DDR2-533/667/800 SDRAM unbuffered memory</p> <p>up to a total size of 4 GB, max. 2 GB per DIMM</p>
<i>Expansion Slots</i>	<p>1x PCI-Express (x16) Version 2.0 supports 2x8 GB/s data transfer</p> <p>Note: The maximum size acceptable for display card is 230mm x 98mm x 38mm</p> <p>1 x PCI (32 bit)</p>
<i>Integrated Graphics</i>	<p>Integrated graphics engine NVIDIA GeForce 8200</p> <p>Supports NVIDIA PureVideo HD technology</p> <p>Supports Blu-ray and HD-DVD movies (supported formats include H.264, VC1 and MPEG2), DirectX 10 support</p> <p>Shared/Dynamic graphics memory: max. 256MB</p> <p>Video outputs: HDMI Version 1.3 (digital) and D-Sub (analog)</p> <p>Supports dual monitor operation via HDMI/DVI and VGA output</p>

<i>8-channel Audio with DD/DTS</i>	<p>7.1 channel High Definition Audio, Realtek ALC888DD codec</p> <p>Supports Dolby® Digital Live! and DTS™ Connect (Digital Theater Systems)</p> <p>103 dB SNR quality, playback sampling rates up to 96kHz</p> <p>Analog: line-out (8-ch), line-in, microphone</p> <p>Digital: optical S/PDIF output</p>
<i>Gigabit-LAN Controller</i>	<p>Marvell 88E1116 Ethernet network controller (Gigabit PNY)</p> <p>PCI-Express x1 interface</p> <p>Supports 100 / 1.000 MBit/s operation</p> <p>Supports Wake-on-LAN</p>
<i>Firewire- Controller</i>	<p>Firewire controller TI TSB43AB22A</p> <p>IEEE1394a OHCI V1.0 compliant</p> <p>With 2 Firewire connectors (front and rear)</p> <p>Supports 400Mb/s, 200Mb/s, 100Mb/s data transfer rate</p>
<i>Drive connectors</i>	<p>2x Serial-ATA II, 3 Gbit/s (300 MB/s) bandwidth</p> <p>Supports Raid 0, 1, 0+1, 5 and JBOD</p> <p>2x external Serial ATA (eSATA)</p> <p>1 x IDE UltraDMA 100 drives</p> <p>1 x floppy disk drive</p>
<i>Front panel connectors</i>	<p>Microphone</p> <p>Headphone (Line-out)</p> <p>2x USB 2.0</p> <p>Firewire (Mini 4 pin connector)</p> <p>Reset button</p> <p>Power button</p>
<i>Back panel connectors</i>	<p>HDMI v1.3 (DVI adapter included)</p> <p>Sub-D VGA</p> <p>4x USB 2.0</p> <p>2x External Serial ATA (eSATA)</p> <p>GigaBit LAN (RJ45)</p> <p>IEEE1394 Firewire (6 pin)</p> <p>8-ch Audio line-out (2x rear/front, bass/center, surround/back)</p> <p>Optical S/PDIF output (optional input)</p> <p>Audio Line-in</p> <p>CMOS button</p> <p>Optionale Wireless LAN antenna (PN18G, PN20)</p> <p>Optional parallel port (PC8)</p> <p>Optional PS/2 ports (PS10)</p>
<i>Other connectors</i>	<p>2x fan connectors (4 pin and 3 pin)</p> <p>4x USB 2.0 (two 2x5 pins)</p> <p>Header for optional PS/2 adapter (provides PS/2 keyboard and mouse ports)</p> <p>Audio Line-in (AUX)</p> <p>S/PDIF input/output header</p> <p>CIR header (Consumer Infrared Port)</p> <p>Parallel port header for optional printer port</p>

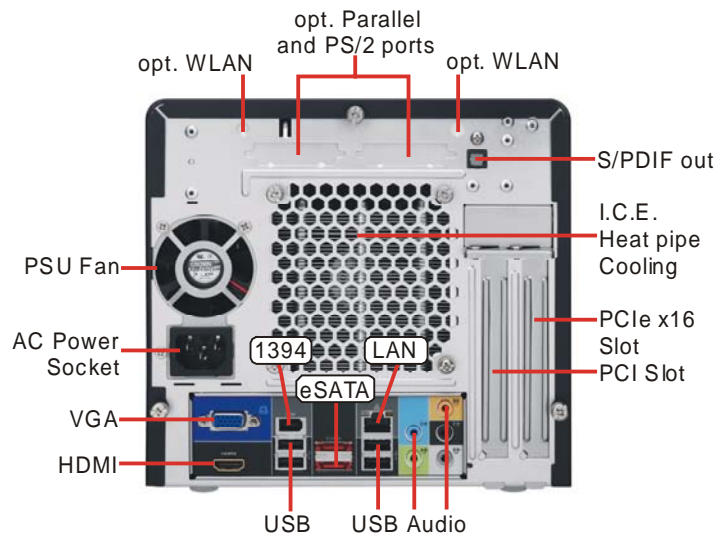
Accessories

Multi-language XPC installation guide
Driver CDROM for Windows XP/Vista (32/64 bit) recognition
HDMI to DVI converter
Cable for FDD (1x)
Preinstalled: cable for SATA (1x), PATA (1x)
Power cord,
Screws, Heatsink Compound

Front View



Rear View



Mainboard

